: SADDLE FITTING, FWD (OUTBOARD/INBOARD)

Tuesday, 30/09/2008 11:14:18 AM

User

Julie Lecocq

Process Sheet

Customer

: CU-DAR001 Dart Helicopters Services

Job Number

: 42359

Estimate Number

P.O. Number

This Issue

: 30/09/2008

: 10530

: NC

: 11 : 41703 Type

S.O. No. :

: MACHINED PARTS

Part Number

Drawing Name

: D2571 : D2571 REV E

Drawing Number Project Number

: N/A

Drawing Revision

Material **Due Date**

: 17/10/2008

Each

Written By

Prsht Rev.

First Issue

Previous Run

Checked & Approved By

Comment

1 02.10.02

Re-format; Change to Dwg Rev. D &

incorporated D2572KJ

Additional Product

Job Number:



Seq. #:

Machine Or Operation:

Description:

1.0 D6101007



Saddle Billet

Comment: Qty.:

1.0000 Each(s)/Unit Total: 16.0000 Each(s)

7075-T7351 8.25X7.75X2.5

Make from D6101-007 billet for D2571 Ensure that grain is along 7.75" length

Batch No: <u>34/960</u>

2.0

HAAS1

Comment: HAAS CNC VERTICAL MACHINING #1 Program Batch No. 42 357 Double check by: 10.4

1-Machine Step No 1 per Folio FA051 and inspect per attached Dimension Sheets 2-Machine Step No 2 per Folio FA051 and inspect per attached Dimension Sheets 3-Machine Step No 3 per Folio FA051 and inspect per attached Dimension Sheets

4-Deburr and remove all machining marks

5-Tumble to remove sharp edges.

3.0

MILLING CONV.

CONVENTIONAL MILLING MACHINE



Comment: CONVENTIONAL MILLING MACHINE

Machine keyway as per dwg D2571 & D2572



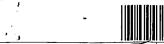
4.0

QC2

INSPÉCT PARTS AS THEY COME OFF MACHINE



Comment: INSPECT PARTS AS THEY COME OFF MACHINE



Dart Aerospace Ltd

W/O:		WORK ORDER CHA	ANGES				
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
	,		!				

Part No: D2571	PAR #: NA.	Fault Category	y: Pron-mach	NCR: Yes) No		Date: 08-11-04
Resolution: _	aceptable	Disposition: _	(ioe-as-is	QA: N/C Closed	1: - }	Date: 08 WW

NCR: 42	2359	WORK ORDER NON-CONFORMANCE (NCR)								
		Description of NC		Corrective Action Section B		Verification	Approval	Approval		
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector		
૦૬/10/23	# 28	one south has Dim 250 meaning or 220. (Florescarrains x-tube bore) RC. employee notices that the irect tool has too two Diffred	0816,23 per 451 042	Acceptable, REF DS EMAIL.	oshilor	65 (0) 23	(8.10.23 PC OSI OP	08/13/23		
		Rm. Inserts on it (Same as) 1/8" of 1/22" (Same as) 842360 Das 72				,		0410/23		
								7		

NOTE: Date & initial all entries

Date: Tüesday, 30/09/2008 11:14:18 AM Usèr: Julie Lecoca **Process Sheet** Drawing Name: SADDLE FITTING, FWD (OUTBOARD/INBOARD) Customer: CU-DAR001 Dart Helicopters Services Job Number: 42359 Part Number: D2571 Job Number: Seq. #: Description: **Machine Or Operation:** 5.0 QC8 SECOND CHECK Comment: SECOND CHECK 6.0 HAND FINISHING1 HAND FINISHING RESOURCE #1 Comment: HAND FINISHING RESOURCE #1 Acid etch and Alodine as per QSI 005 4.1 POWDER COATING 7.0 Comment: POWDER COATING Powder Coat White Gloss (Ref: 4.3.5.1) as per QSI 005 4.3 START TIME: **OVEN TEMPERATURE:** FINISH TIME: INSPECT POWDER COAT/CHEMICAL CONVERSION 8.0 QC3 Comment: INSPECT POWDER COAT PACKAGING RESOURCE #1 9.0 PACKAGING 1 Comment: PACKAGING RESOURCE #1 Identify and Stock Location: 10.0 QC21 Comment: FINAL IN ECTION/W/O RELEASE Job Completion

Dart Aerospac	е	Ltd
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W/O: WORK ORDER CHANGES										
DATE	STEP	PROC	OCEDURE CHANGE By Date Qty C			By Date Qty Chie			Approval Chief Eng / Prod Mgr	Approval QC Inspector
•			,							
							• •			
·	·									
Part No		PAR #:	_ Fault Cat	egory:	NC	R: Yes	No DQA	\:	_ Date: _	
	R	esolution:	_ Dispositi	on:	QA	: N/C Clo	sed:	·	Date: _	
NCR:		W	ORK ORI	DER NON-CONFO	DRMANCE	(NCR)			
DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Action Descri	Section B ption	Sign & Date	Verific Section		Approval Chief Eng	Approval QC Inspector
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		- -				,				
								4.5		
		.*								7-

NOTE: Date & initial all entries

DART AEROSPACE LTD	Work Order:	42259
		- J. J.
Description: Saddle, Fwd Outboard	Part Number:	D2571
Inspection Dwg: D2571 Rev. E		Page 1 of 1

				Recorded Actual Dimensions					
Dim	Min	Max	Go/No Go Gauge	1	2	. 3	4	Ву	Date
Ā	0.438	0.443		- 44()	- 4140	. 440	440		
В	1.745	1.755		7.750	1.750	1.750	1,750		***
С	3.495	3.505		3.500	3.≤∞	3-500	3.500		
D	1.745	1.755	·	1.750	1-750	1.750	1.750		
E	7.990	8.010		8.001	8.001	8.001	8-001		
F	0.490	0.510		.505	-501	.500	· 502		
G	0.257	0.262		-258	.258	-258	259		
Н	0.375	0.380		.377	- 377	.377	377		
1	0.490	0.510		.500	,501	499	501		
J	1.174	1.184		1.179	1.179	1.179	1.179		
K	0.558	0.578		.566	.566	.565	.567		,
L	1.174	1.184		1-179	1-179	1.179	1.179		
М	1.490	1.500		1.495	1.495	1.179	1.495		
N	2.495	2.505	_	2500	2.500 3.874	2.500	2.500		
0	3.869	3.879		3.574	3.874	3.874	3.874		
P	0.115	0.135		.123	.1.24	.127	~13D		
Q	0.115	0.135		135	-135	-135	.135		
R	0.240	0.260		252	. <i>- 2</i> ≤3	.252	252		
S	0.115	0.135		127	·/29 ·/88	./25	.127		
T	0.178	0.198		./88	./88	188	188		,
Ü	2.940	2.980		2.960	2.960	2.960	2.960		
V	0.230	0.250		-240	.241	.239	240		
W	0.115	0.135		123	. 123	121 .311 .460	125		
X	0.308	0.313		-311	-3/2	-311	· 312		
Υ	0.760	0.765		.760	-761	-760	,760		
·Z	0.352	0.372		.365	364	.365	,370		
AA	0.470	0.530		.500	.≤∞	.500	,500		
AB	0.615	0.635		.626	.625	.6.24	635		
AC	0.053	0.073	-	-063	063	-063	. 663		
AD	0.240	0.260		.224	.251	,249	1250		
AE	1.375	1.395		1.389	1.387	/372_	1.39.2		
AF	0.115	0.135	· ·	135	135	-135	·/3n		
AG	0.240	0.280		- 260	.260	- 260 -251	-240		
AH	0.240	0.260		- 251	.252	125	. 250		
ΑI	2.000	2.020		2.002	2.002	2.006	2.005		
AJ	0.023	0.043		. 033	- 033	. 033	.033		•
	Acc	ept/Reje	ct						

Measured by: J	Audited by ΔP
Date: 68/10/25 / 08/10/23	Date: 08/10/28

Date	Change	Revised by	Approved
	New Issue	RF	
02.09.24	Re-format; Added Rev. D	KJ	
02.10.11	Re-format; Added DT8682, DT8683, DT8684	KJ	
05.05.05	Added dimension Al	KJ/RF	1
05.12.05	Added dimension AJ	KJ/JLM ox	Gill.
	02.09.24 02.10.11 05.05.05	New Issue 02.09.24 Re-format; Added Rev. D 02.10.11 Re-format; Added DT8682, DT8683, DT8684 05.05.05 Added dimension Al	New Issue RF 02.09.24 Re-format; Added Rev. D KJ 02.10.11 Re-format; Added DT8682, DT8683, DT8684 KJ 05.05.05 Added dimension Al KJ/RF

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DART AEROSPACE LTD	Work Order:	42359
Description: Saddle, Fwd Outboard	Part Number:	D2571
Inspection Dwg: D2571 Rev. E	4.	Page 1 of 1

				Red	corded Actu	ıal Dimensi	ons		
Dim	Min	Max	Go/No Go Gauge	1/5	26	3/7	18	Ву	Date
Α	0.438	0.443		.440	.440	440	.440		
В	1.745	1.755		1.757	1.750	1,750	1.750		
С	3.495	3.505	·	3.500	3.50n	3.500	3.500		
D	1.745	1.755		1.750	1.750	1.750	1.750		
Е	7.990	8.010		8.000	8.000	8.000	8.000		
F	0.490	0.510		- 502	.506	,504	-506		
G	0.257	0.262		. 260	.259	.260	2 40		
Н	0.375	0.380		1.377	377	.377	.377		
1	0.490	0.510		. 500	.500	. 500	500		
J	1.174	1.184		1.179	1.179	1.179	1.179		
K	0.558	0.578		.566	.566	.569	570		
L	1.174	1.184		1.179	1.179	1.179	1.179		
М	1.490	1.500		1.495	1.495	1.495	1.494		
N	2.495	2.505		2.500	2.500	2,499	2.499		
0	3.869	3.879		3.872	3.873	3.87.2	3.872		
Р	0.115	0.135		-129	-129	129	.130		
Q	0.115	0.135		1.135	. 135	-135	. 135		
R	0.240	0.260		.253	.a53	.253	.252		•
S	0.115	0.135		,133	131	133	-129		
T	0.178	0.198		-188	. 188	133	. 188		
Ū	2.940	2.980		2.760	2.960	2.9100	2960		
V	0.230	0.250		238	.240	-240	240		
W	0.115	0.135		127	.127	127	128		
X	0.308	0.313		1312	3//	. 3//	3//		
Υ	0.760	0.765		1.760	760	.760	076b		
Z	0.352	0.372		-365	.367	.367	.367		
AA	0.470	0.530		.500	.500	.500	.500		
AB	0.615	0.635		. 634	.635	. 635	- 435		
AC	0.053	0.073		-063	.063	.063	.043		
AD	0.240	0.260		.246	,252	.255	250		
AE	1.375	1.395		1 39/	1.391	1.390	1.390		
AF	0.115	0.135		. /30	.136	. 130	.136		
AG	0.240	0.280		.250	-260	.25%	.250		
AH	0.240	0.260		. 250	-250	-250	257		
ΑI	2.000	2.020		2.004	2.000	2.000	2.000		
AJ	0.023	0.043		.033	.033	033	. 033		
	Acc	ept/Reje	ct		·				

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Measured by:	Audited by X/
Date: 05/10/2/0	Date: 08/10/28

Date	Change	Revised by	Approved
	New Issue	RF	
02.09.24	Re-format; Added Rev. D	KJ	•
02.10.11	Re-format; Added DT8682, DT8683, DT8684	KJ	
05.05.05	Added dimension Al	KJ/RF	1
05.12.05	Added dimension AJ	KJ/JLM ox	Gill.
	02.09.24 02.10.11 05.05.05	New Issue 02.09.24 Re-format; Added Rev. D 02.10.11 Re-format; Added DT8682, DT8683, DT8684 05.05.05 Added dimension Al	New Issue RF 02.09.24 Re-format; Added Rev. D KJ 02.10.11 Re-format; Added DT8682, DT8683, DT8684 KJ 05.05.05 Added dimension Al KJ/RF



DART AEROSPACE LTD	Work Order:	42359
Description: Saddle, Fwd Outboard	Part Number:	D2571
Inspection Dwg: D2571 Rev. E	•	Page 1 of 1

				Re	corded Actu	ıal Dimensi	ons		
Dim	Min	Max	Go/No Go Gauge	X 9	210	311	1/2	Ву	Date
Α	0.438	0.443		440	.440	-440	.440		
В	1.745	1.755		1.750	1.750	1.750	1.750		
С	3.495	3.505		3.500	3.500	3,500	3.500		
D	1.745	1.755		1.750	1.750	1.750	1.750		
E	7.990	8.010		8.002	8.001	8.000	8.000		
F	0.490	0.510		.502	.504	.507	502		
G	0.257	0.262		.246	240	.259	2(1)		
Н	0.375	0.380		.377	377	.377	.377		
1	0.490	0.510		.499	· 500	.500	.499		
J	1.174	1.184		1.179	1.178	1.178	1.179		
K	0.558	0.578		.566	.566	.568	567		*
L	1.174	1.184		1.179	1.177	1.178	1,179		
М	1.490	1.500		1.495	1.493	1.495	1.494		_
N	2.495	2.505		2.500	2.499	2.499	2.500		
0	3.869	3.879		3.872	3.874	3.87/	3.872		*
Ρ.	0.115	0.135		. /3/	, 132	-130	. /30		
Q	0.115	0.135		1.135	-135	. 135	.135		
R	0.240	0.260		.253	.253	,253	.253		
S	0.115	0.135		./3/	131	. 130	./30		
T	0.178	0.198		- 188	188	1.188	. 188		
Ū	2.940	2.980		2.96t	2.960	2.959	2.960		
V	0.230	0.250		.241	242	.241	.240		
W	0.115	0.135		-127	129	.127	.124		
X	0.308	0.313		.3//.	-310	3/0	310		
Υ	0.760	0.765		.760	760	.760	.760		
Z	0.352	0.372		.369	.369	364	366		
AA	0.470	0.530		.500	,500	500	506		
AB	0.615	0.635		. 635	. 635	.635	.635		
AC	0.053	0.073		.063	,063	.063	.063		
AD	0.240	0.260		249	-250	250	25h		
AE	1.375	1.395		1.391	1.390	1.387	1.392		
AF	0.115	0.135		.730	.130	.130	.130		
AG	0.240	0.280		250	.256	2/10	.255		
AH	0.240	0.260		.250	.250	.251	.251		<u> </u>
Αl	2.000	2.020		2.004	2.002	2,000	2.005		
AJ	0.023	0.043		. 033	,032	.03_3	.033		
	Acc	ept/Reje	ct						

Measured by:	C)nl	Audited by 🐰 🔑
Date:	08/10/26	Date: 08/10/24

Rev	Date	Change	Revised by	Approved
Α		New Issue	RF	
В	02.09.24	Re-format; Added Rev. D	KJ	
C	02.10.11	Re-format; Added DT8682, DT8683, DT8684	KJ	
D	05.05.05	Added dimension Al	KJ/RF	1
Е	05.12.05	Added dimension AJ	KJ/JLM A	

DART AEROSPACE LTD	Work Order:	42359
Description: Saddle, Fwd Outboard	Part Number:	D2571
Inspection Dwg: D2571 Rev. E		Page 1 of 1

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Dim	Min	Max	Go/No Go Gauge	1/13	214	3/15	#16	Ву	Date
Α	0.438	0.443		.440	440	.440	.440		
В	1.745	1.755		1.750	1.750	1,750	1.750		
С	3.495	3.505		3.500	3.500	3.500	3.500		
D	1.745	1.755		1.750	1.750	1,750	1.750		
Е	7.990	8.010		8.001	8.002	8.002	8.002		
F	0.490	0.510		502	2502	.572	.502		
G	0.257	0.262		-2let	2/10	-240	260		
I	0.375	0.380		.377	.377	.377	.377		
l_l_	0.490	0.510		.497	.500	.501	.50/		
J	1.174	1.184		1.179	1.179	1.178	1.178		
K	0.558	0.578		.563	.564	567	.5707		
L	1.174	1.184		1.179	1.178	1.178	1.178		
М	1.490	1.500		1.495	1. 494	1.493	1.495		
N	2.495	2.505		2,500	2.500	2,50h 3,873	2,499		
0	3.869	3.879		3.87/	3,872	3.873	3.873		
P	0.115	0.135		. /30	131	.131	.131		
Q	0.115	0.135		. /35	-135	. 135	135		
R	0.240	0.260	****	, <u>253</u>	, 253	253	.254		
S	0.115	0.135		· 130 · 188	·/32	.133 .188	./33		
T	0.178	0.198		188	. 188	. 188	./88	·	
U	2.940	2.980		2.960	2.957	2958	2.958		
V	0.230	0.250		.241	.241	,242	241		
W	0.115	0.135		128	128	128	127		
Х	0.308	0.313		.309	309	.309	3/0		
Υ	0.760	0.765		.740	.760	:760	.760		
Z	0.352	0.372		. 368	-365	.368	-368		
AA	0.470	0.530		. 500	·570b	. 500	. 500		<u>.</u>
AB	0.615	0.635		635	.635	.635	.635		
AC	0.053	0.073		-063	.063	.063	063		
AD	0.240	0.260		.249	-250	1252	.251		
AE	1.375	1.395		1.390	1.590	1.390	1.390		
AF	0.115	0.135		./32	.129	.130	- /3 0		
AG	0.240	0.280		256	252	.255	.257		
АН	0.240	0.260		257	337	.857	.257		
AI	2.000	2.020		2.003	2.000	2,002	2.003		
AJ	0.023	0.043		-033	.033	.033	.033		
	Acc	ept/Reje	ct						

Measured by	1: One	Audited by Ab/ /
Date	08/10/27	Date: 08/10/2

Rev	Date	Change	Revised by	Approved
Α		New Issue	RF	
В	02.09.24	Re-format; Added Rev. D	KJ	
С	02.10.11	Re-format; Added DT8682, DT8683, DT8684	KJ	
D	05.05.05	Added dimension Al	KJ/RF	_1
Е	05.12.05	Added dimension AJ	KJ/JLM 🔣	

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DART AEROSPACE LTD

Description: Saddle, Fwd Outboard

Part Number: D2571

Inspection Dwg: D2571 Rev. E

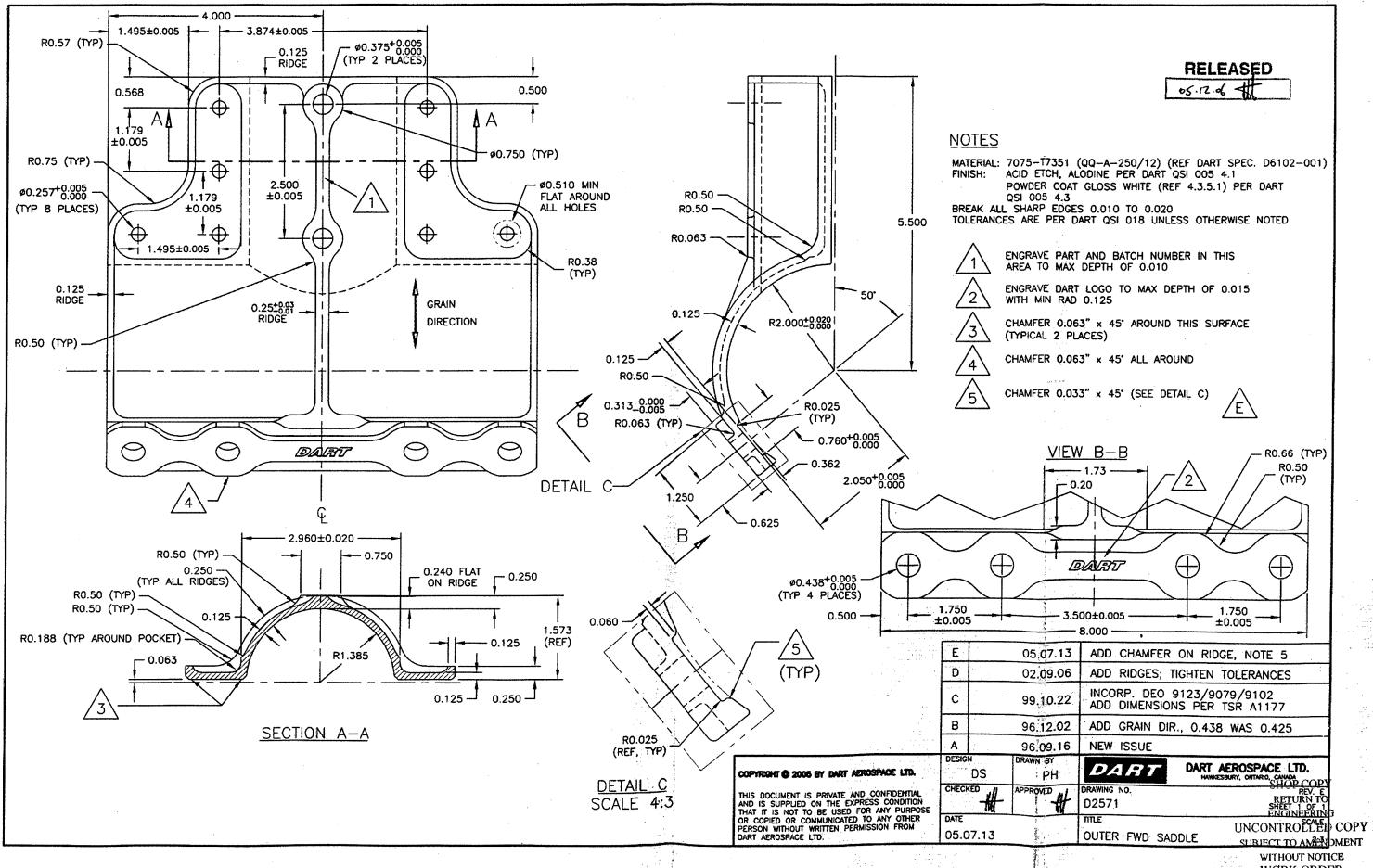
Page 1 of 1

Inspect dimensions highlighted on inspection sheet drawing D2571 Rev. E and record below:

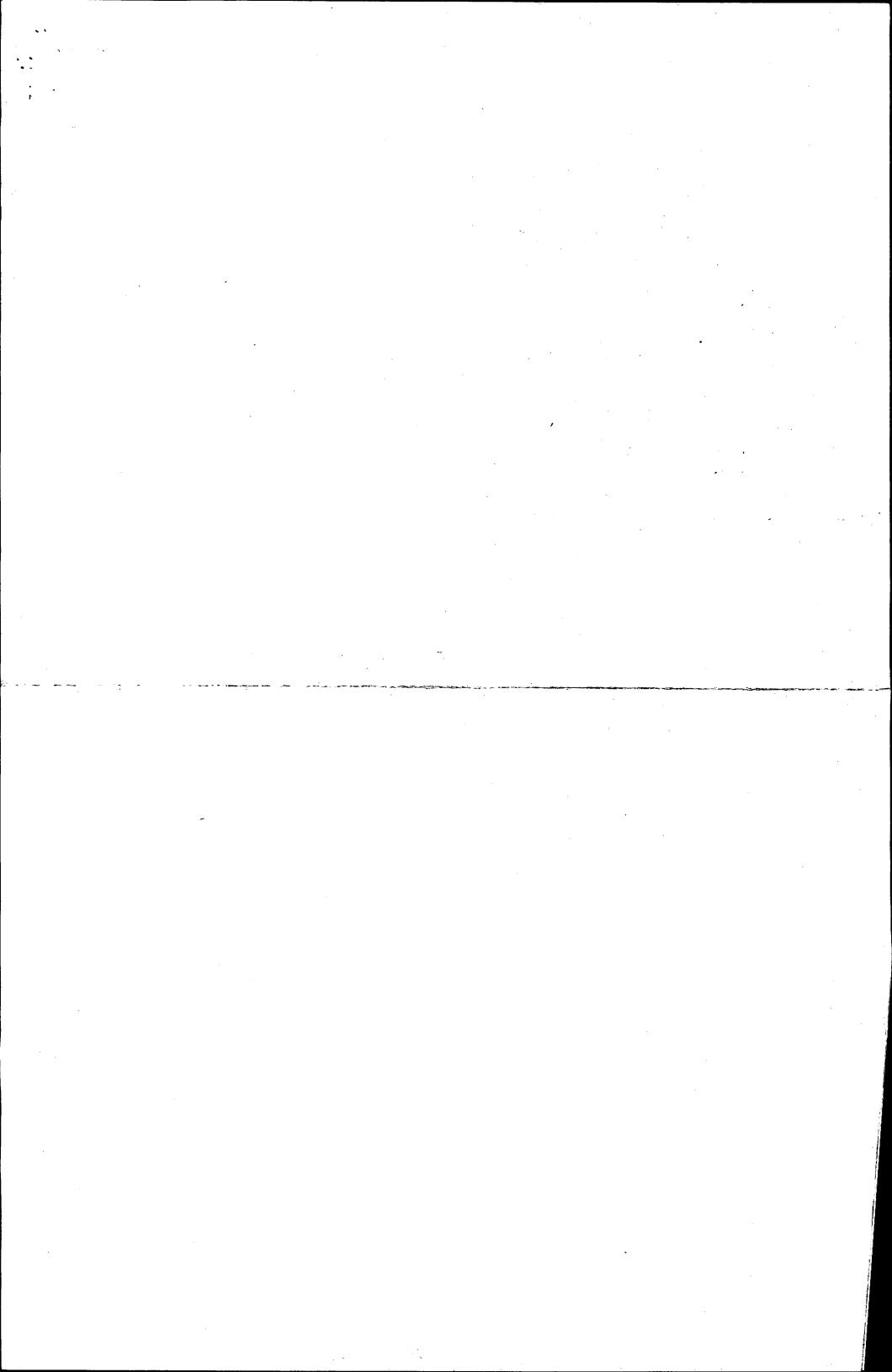
				Recorded Actual Dimensions					
Dim	Min	Max	Go/No Go Gauge	11	2	3	4	Ву	Date
A	0.438	0.443		.440					
В	1.745	1.755		1.750	·				
С	3.495	3.505		3.500					
D	1.745	1,755		1-7501					
E	7.990	8.010		8-001					
F	0.490	0.510		.502					
G	0.257	0.262		260					
Н	0.375	0.380		377					
	0.490	0.510	- L	499		ļ			
J	1.174	1.184		1.179					
K	0.558	0.578		.566				_	
L	1.174	1.184		1.179					
М	1.490	1.500		1.494					
N	2.495	2.505		2.500					
0	3.869	3.879		3.872					
Р	0.115	0.135		./3/					
Q	0.115	0.135		, (35					
R	0.240	0.260		254					
S	0.115	0.135		132					
T	0.178	0.198		. 188					
U	2.940	2.980		2.957					
V	0.230	0.250		.240					
W	0.115	0.135		128		<u> </u>			
Х	0.308	0.313		-309					
Υ	0.760	0.765		-760					
Z	0.352	0.372		.365					
AA	0.470	0.530		-500					
AB	0.615	0.635		.627					
AC	0.053	0.073		-063					
AD	0.240	0.260		257					
ΑE	1.375	1.395		1.390					
AF	0.115	0.135		:134					
AG	0.240	0.280		.260					
AH	0.240	0.260		.250					
Al	2.000	2.020		2.004					
AJ	0.023	0.043		-033					
		cept/Reje	ct					,	

Measured by: SM Audited by SM Date: 08/10/25/

Rev	Date	Change	Revised by	Approved
A		New Issue	RF	
В	02.09.24	Re-format; Added Rev. D	KJ	
c	02.10.11	Re-format; Added DT8682, DT8683, DT8684	KJ	
Ď	05.05.05	Added dimension Al	KJ/RF	1
E	05.12.05	Added dimension AJ	KJ/JLM ox	4/1/



WITHOUT NOTICE
WORK ORDER
NO. 200



Provencal

m:

David Shepherd [dshepherd@dartaero.com]

ent:

October 23, 2008 1:56 PM

fo:

'Chris Provencal'

Subject:

RE: Emailing: NCR-D2571.jpg

Agree. Parts are acceptable.

David

----Original Message----

From: Chris Provencal [mailto:cprovencal@dartaero.com]

Sent: Thursday, October 23, 2008 8:40 AM

To: 'David Shepherd'

Subject: Emailing: NCR-D2571.jpg

David,

D2751 & D2752, both and inner and outer saddle have the top ridge 0.220" (nominal = 0.250") under tolerance, see attached picture. I don't have anything to substantiate this by calculation. However, on the basis that the original saddle did not have this ridge, I would conclude that these saddles are acceptable. Do you concur?

-Chris

No virus found in this incoming message. Checked by AVG. Version: 7.5.549 / Virus Database: 270.8.2/1739 - Release Date: 10/22/2008 7:23 AM

No virus found in this outgoing message.

Checked by AVG.

Version: 7.5.549 / Virus Database: 270.8.2 - Release Date: 10/20/2008 12:00 AM